Cooking with Clinical Quality Language (CQL):
or
How to author eCQMs with QDM and CQL

Thursday April 28, 2016
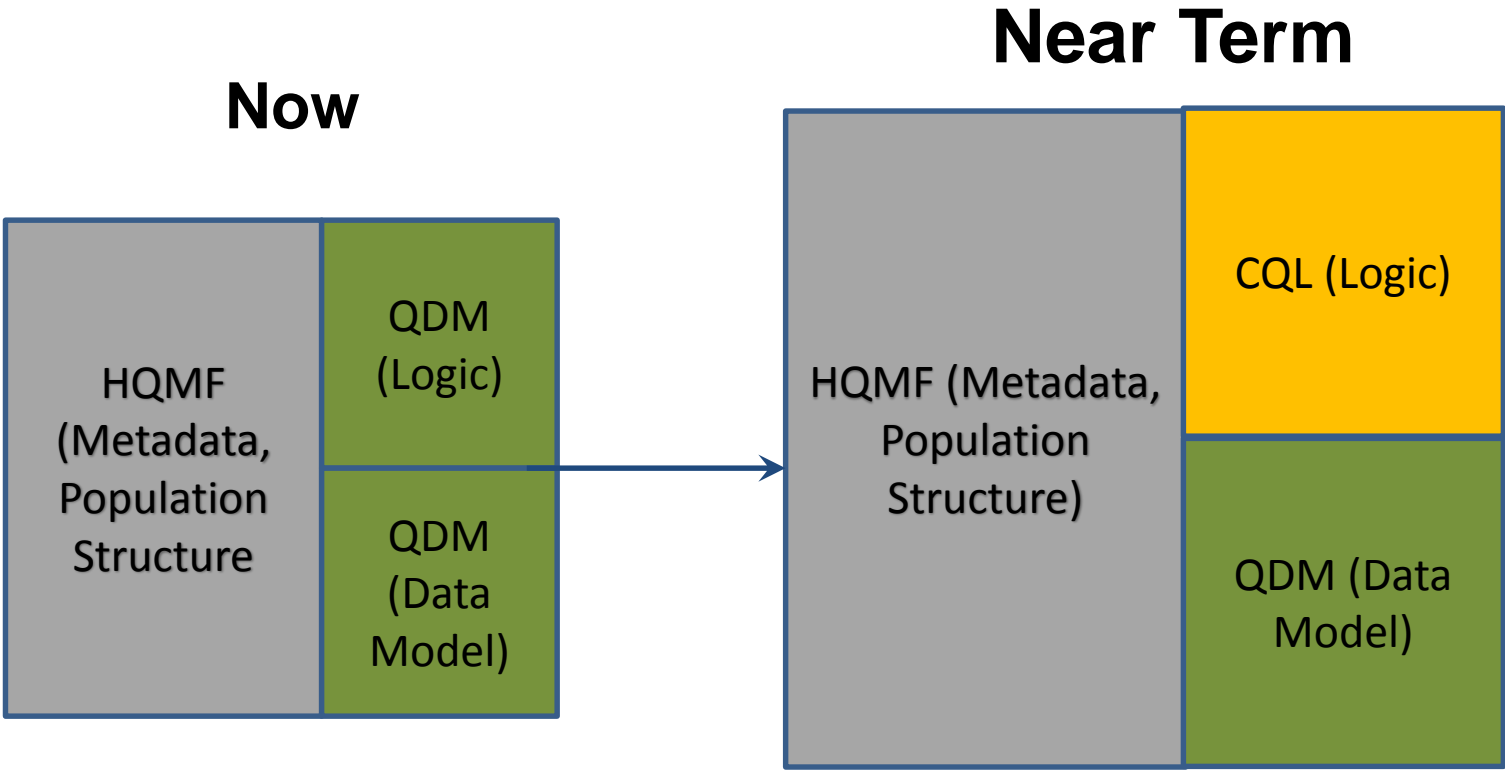## 3:00 PM EDT

Deborah Krauss
Centers for Medicare & Medicaid Services

Bryn Rhodes
ESAC

Agenda

- Welcome and Background
- White Board Session

Evolving eCQM Standards

Now

Near Term

Definitions:

HQMF – Health Quality Measure Format

CQL – Clinical Quality Language

QDM – Quality Data Model

Differences Between the Quality Data Model (QDM) Now and When using Clinical Quality Language (CQL)

QDM Now

- Data Model and Logic are both in the QDM

QDM with CQL

- The Data Model will continue to exist as the QDM
- CQL will provide the logic expressions and will replace that function currently in the QDM

Benefits of CQL

	QDM Logic	CQL Logic
Modularity and Computability	Low	High
Data Model Flexibility **	None	High
Expressive and Robust Logic Expression	Low	High
Duplicative work for Implementers, Vendors, and Developers	Yes	Lower

Proposed Timeline For Updating Standards

Work Effort: 2016 through Fall 2017 | Fall 2017 +

Measures using QDM v4.2 & HQMF 2.1

Measure Development
- 2015
  - 2016

Testing CQL – QDM – HQMF 2.1

Testing and Development
- Measure Developers
- Implementers & Vendors
- CQL Training/Education
- Measure Authoring Tool
- Bonnie & Cypress
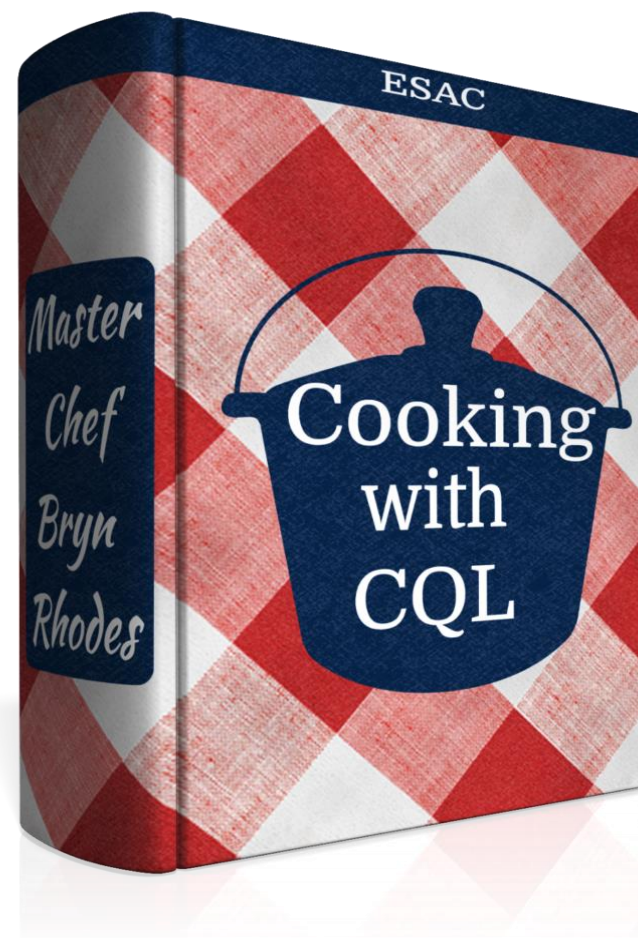- Quality Data Model
- Integration Testing
- Feedback Loops

Testing eCQM using CQL - – QDM – HQMF 2.1

Measure Development and Testing in a simulated environment
- Starts 2017

CMS
CENTERS FOR MEDICARE & MEDICAID SERVICES

Purpose and Goals of "Cooking with CQL"

- Interactive Forum
- Engage Measure Developers
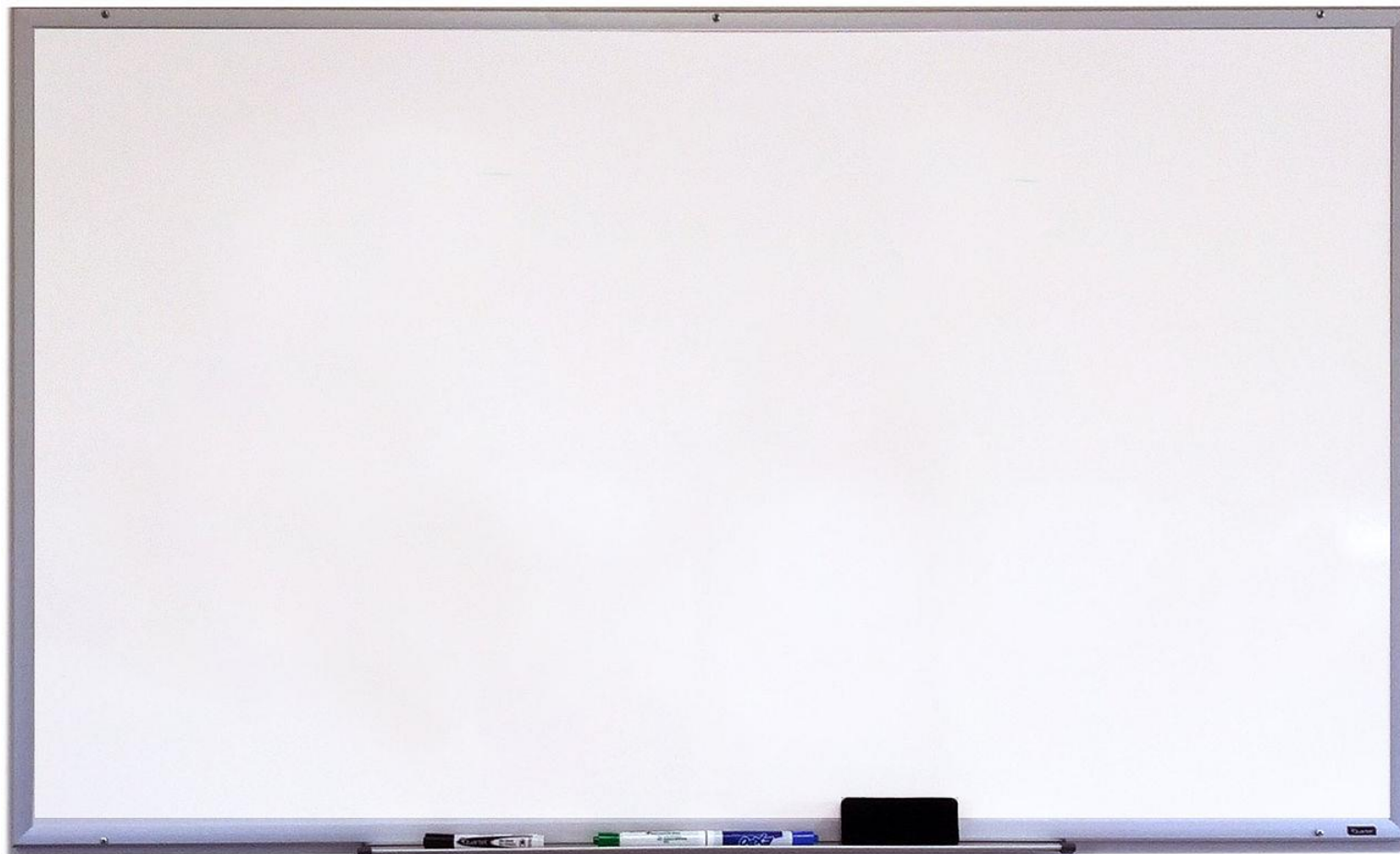- Solicit Feedback Early and Often

Disclaimers

- Tools for CQL authoring are still in development
- Examples and solutions are built near real-time
- Need thorough clinical, terminological, and technical review

Disclaimers (cont'd)

- Whatever we review on the calls is recorded and available for public viewing. Those presenting content for review and CQL formatting should only provide information that is appropriate for public display and distribution. If there is intellectual property in the content, the submitter agrees that it may be shared publicly.

- There are a few concepts that may not have QDM representation. For example, members for whom a plan can receive electronic clinical quality data (ECDS) may be a "System characteristic" but QDM does not have such a datatype and the data source is not clear. We are able to provide advice on representing logic in CQL only if there is a way to represent the information with the QDM data model.

White Board Session

Resources

- HL7 Standard: Clinical Quality Language Specification, Release 1 DSTU
    - http://www.hl7.org/implement/standards/product_brief.cfm?product_id=400
- HL7 CDS Workgroup Project Homepage
    - http://wiki.hl7.org/index.php?title=Clinical_Quality_Language
- GitHub Tools Repository
    - https://github.com/cqframework/clinical_quality_language
- eCQI Resource Center CQL Space

    - https://ecqi.healthit.gov/cql

- CQL JIRA site coming soon

Questions?